	Application No.	Applicant(s)	
Notice of Allowability	10/033,156	BEASOM, JAMES D.	
	Examiner	Art Unit	
	Steven Loke	2811	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate comming IGHTS. This application is:	n this application. If not included unication will be mailed in due cours	se. THIS
1. A This communication is responsive to <u>amended Appeal Bris</u>	of filed on 12/2/05.	·	
2. \boxtimes The allowed claim(s) is/are <u>1-12 and 14-17</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No	rom the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			CE OF
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the depons	son's Patent Drawing Reviews s Amendment / Comment o .84(c)) should be written on the header according to 37 Cl sit of BIOLOGICAL MAT	r in the Office action of he drawings in the front (not the back FR 1.121(d). ERIAL must be submitted. Note	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 08), 7. ☒ Examiner's	aformal Patent Application (PTO-15) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowand EDDIE LEE SUPERVISORY PATENT EXAMITECHNOLOGY CENTER 280	ce NER

Application/Control Number: 10/033,156 Page 2

Art Unit: 2811

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Lundberg on 2/1/06.

The application has been amended as follows:

Claim 1, line 1, change "a oxide" to -an oxide--.

Cancel claims 19-22.

2. The following is an examiner's statement of reasons for allowance: The first major difference in the claims not found in the prior art of record is a method comprising: forming a second layer of nitride overlaying and in contact with an exposed portion of a surface of a substrate in the contact opening and sidewalls of the contact opening; and using reactive ion etching (RIE etch) without a mask to remove a portion of the second nitride layer adjacent the surface of the substrate in the contact opening to expose a portion of the surface of the substrate in the contact opening without removing portions of the second nitride layer covering the sidewalls of the contact opening. The second major difference in the claims not found in the prior art of record is a method comprising: forming a second layer of nitride overlaying the first layer of nitride, the second layer of nitride overlaying the exposed portion of the surface of the substrate in the contact opening and sidewalls of the contact opening; and using a reactive ion etch (RIE etch)

Application/Control Number: 10/033,156

Art Unit: 2811

without a mask on the substrate for a predetermined amount of time to remove a portion of the second layer of nitride overlaying the surface of the substrate in the contact opening without removing the portions of the second nitride layer overlaying the sidewalls of the contact opening and without removing portions of the first nitride layer overlaying the oxide layer, wherein the oxide layer is sealed by the first and second nitride layers. The third major difference in the claims not found in the prior art of record is a method comprising: forming a second layer of nitride over the first layer of nitride, the second layer of nitride overlaying the exposed portions of each of the device regions in their associated contact openings and sidewalls of each of the contact openings; and exposing the substrate to a reactive ion etch (RIE etch) for a pre-determined amount of time to remove portions of the second layer of nitride adjacent a surface of each device region in an associated contact opening, wherein the substrate is not exposed to the RIE etch long enough to remove all of the portions of the second nitride layer overlaying the respective sidewalls of each of the contact openings and portions of the first layer of nitride overlaying the oxide layer so that the oxide layer remains sealed by the first and second layers of nitride.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/033,156 Page 4

Art Unit: 2811

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sl

February 4, 2006

EDDIE LEE

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800